1. A method for purifying a thermoplastic norbornene resin comprising:

- 2. The method for purifying a thermoplastic norbornene resin according to claim, 1, wherein said mixed solvent has a mixing ratio of 2-propanol to water of from 1:1 to 5:1 by volume.
- 3. The method for purifying a thermoplastic norbornene resin according to claim 1, wherein said purified resin contains said organic impurities not more than 30 ppb, said ionic impurities not more than 5 ppb, and said metallic impurities not more than 5 ppb.
- 4. The method for purifying a thermoplastic norbornene resin according to claim 2, wherein said purified resin contains said organic impurities not more than 30 ppb, said ionic impurities not more than 5 ppb, and said metallic impurities not more than 5 ppb.
 - 5 The method for purifying a thermoplastic norbornene resin according to claim 3, wherein said organic impurities comprise hydrocarbon impurities of

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not more than 20 ppb, deterioration product of antioxidant of not more than 5 ppb, and deterioration product of oxidized resin component of not more than 5 ppb.

- 6. The method for purifying a thermoplastic norbornene resin according to claim 4, wherein said organic impurities comprise hydrocarbon impurities of not more than 20 ppb, deterioration product of antioxidant of not more than 5 ppb, and deterioration product of oxidized resin component of not more than 5 ppb.
- 7. A plastic substrate for a magnetic recording medium manufactured by injection-molding a thermoplastic norbothene resin purified by the method defined by claim 1.

8. A plastic substrate for a magnetic recording medium manufactured by injection-molding a thermoplastic norbornene resin purified by the method defined by claim 2.

- 9. A plastic substrate for a magnetic recording medium manufactured by injection-molding a therpoplastic norbornene resin purified by the method defined by claim 3.
- 10. A plastic substrate for a magnetic recording medium manufactured by injection-molding a thermoplastic norbornene resin purified by the method defined by claim 4.

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11. A plastic substrate for a magnetic recording medium manufactured by injection-molding a thermoplastic norbornene resin purified by the method defined by claim 5.

- 12. A plastic substrate for a magnetic recording medium manufactured by injection-molding a thermoplastic norbornene resin purified by the method defined by claim 6.
- 13. The plastic substrate for a magnetic recording medium according to claim 7, wherein number of defect that is not smaller than 1 µm in diameter existing on a surface of said plastic substrate is not more than 100 per surface.

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14. A magnetic recording medium comprising: said plastic substrate defined by claim 7; and

a magnetic layer, a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.

- 15. A magnetic recording medium comprising: said plastic substrate defined by claim 8; and
- a magnetic layer, a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.
 - 16. A magnetic recording/medium comprising: said plastic substrate defined by claim 9; and

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a magnetic layer, a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.

19. A magnetic recording medium comprising: said plastic substrate defined by claim 10; and

a magnetic layer, a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.

18. A magnetic recording medium comprising: said plastic substrate defined by claim 11; and

a magnetic layer, a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.

19. A magnetic recording medium comprising: said plastic substrate defined by claim 12; and

a magnetic layer, a protective layer, and a liquid lubricant layer sequentially formed on said plastic substrate.

20. The magnetic recording medium according to daim 14, wherein said medium does not generate any blister having a diameter of not less than 1 μm and a height of not less than 0.1 μm when said medium is left in an environment of selected from 60°C at 80% RH -40°C at 10% RH, and a combination of these conditions.

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A method for manufacturing a magnetic recording medium comprising:

purifying a thermoplastic norbornene resin using a cleaning liquid that is selected from 2-propanol and a mixed solvent of 2-propanol and water;

forming a plastic substrate by injection-molding said purified resin; and sequentially depositing a magnetic layer, a protective layer, and a liquid lubricant layer on said plastic substrate.

The method for manufacturing a magnetic recording medium according to claim 21, wherein said mixed solvent of 2-propanol and water is a mixture with mixing ratio 2-propanol: water is from 1:1 to 5:1.

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